

**ABSTRACT:**

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~~Method of modulation and demodulation of a digital signal, in particular in a frequency band affected by flat fading, associated modulator and demodulator~~

~~Broadcasting on the FM band presents a major drawback in respect of digital transmission by virtue of a propagation problem called spatial fading or flat fading. The invention proposes a~~

~~A method of modulating a digital signal of width L in frequency on a given useful frequency band is described characterized in that it comprises the following steps: comprising: a separation of the~~ The digital signal is separated into N blocks  $b_n$  ( $1 \leq n \leq N$ ) ~~; a splitting of the~~ The given useful frequency band is split into N contiguous parts  $P_n$  ~~; a definition of channels~~ Channels  $C_n$ , of width  $l_n$  in frequency, lying within an associated part  $P_n$ , are defined. ~~[[the]]~~ The channels  $C_n$  ~~being~~ are separated, ~~[[a]]~~ a distributing of each block of digital signals  $b_n$  over the associated channel  $C_n$ .

~~{Figure 1}~~